

Compact & extremely powerful, self-powered (3000W Class-D with PFC), DSP integrated subwoofer unit in direct radiation configuration. 21" (4" voice coil) neodymium transducer.



Key features

- Extraordinary high power output
- Integrated Digital processor (64 bit / 96 KHz)
- Front & rear audio and power connectors for cardioid applications
- Ergonomic design in premium birch plywood & finished in polyurea
- 2.8" IPS display with multifunction joystick control
- Stackable and flyable standard and/or cardioid configuration

Applications

- Touring & fixed installations
- Sports stadiums
- Low frequency complement for CLS-212
- Houses of worship
- Concert halls, auditoriums
- Club installations

General description & specifications

The CLS-121S is a high-output, extremely powerful sub-bass element designed to be used in unison with the **coaxial** CLS-212 line array module.

It uses one low distortion 21" (4" QUATTRO in/out copper voice coil) custom speaker with double silicon spider with optimized compliance, exclusive Malt Cross Technology cooling system for reduced power compression and aluminium demodulating ring for very low distortion.

Designed to be used either as a standard sub bass unit or easily configurable in cardioid configuration thanks to integrated front & rear power connectors enable a discreet installation without any cables visible at the front of the cluster.

The extra strong, especially designed internal wooden reinforcements reduce unwanted vibrations eliminating any noise, lowering distortion and delivering a clear sound. At the same time, the bass port is designed with a flare to eliminate any turbulence caused by sharp edges in the sound waves path.

The 3000W **Class-D amplifier** with PFC (Power Factor Correction) offers exceptional efficiency with maximum system performance whilst significantly lowering power consumption. With Thermal, short-circuit and overload protections the system module delivers an outstanding sonic performance. Coupled together with our new

generation, 64 bit/96KHz processor the system electronics are yet further guaranteed not only the utmost protection but the best sonic performance.

Designed in-house by Lynx Pro Audio engineers our DSP offers the most recent advances in digital processing such as FIR filters delivering a linear phase & frequency response. The latest 32 bit/96KHZ AD/DA converters make the system one of the most advanced & innovative line arrays on the market resulting in superior sound quality.

A 2.8" IPS display user interface is located on the enclosure's back panel and has multifunction joystick control enabling the user to control, select and/or adjust parameters such as cabinet presets, gain, delay and input EQ (see user manual). Two Ethernet ports enable the system to be controlled with the OCS platform for easier alignment, monitoring and processing of the array and together with the new Rainbow 3D prediction software delivers a complete system design tool.

The enclosure is made from premium grade birch plywood and finished with a polyurea coating for longer durability & weather protection. It also has a number of dedicated accessories available and the 4 point rigging system which includes 2 front automatically rising plates and 2 rear points which enable 10 CLS-121S cabinets to be flown in a single array or together with the CLS-212.

Technical Data

Frequency range	30 Hz - 90 Hz (preset 90 Hz)
Coverage	Quasi Omnidirectional
Max SPL / Peak	131 dB / 137 dB
Components	<ul style="list-style-type: none"> • LF: 21" Neodymium magnet transducer. 4" quattro in/out copper voice coil, Waterproof cone treated on both sides. Malt Cross Technology cooling system. Aluminium demodulating ring for very low distortion. 1600 W (AES)
Power amplifier	3000 W Class D with switching power supply & PFC
DSP	Internal Lynx Processor DSPB-FL. 96 KHz / 64 bit double-precision High performance 32 bit 96 KHz AD/DA converters 120dB
Configuration	Bass-reflex direct radiation enclosure
Control	User control interface with 2.8" IPS display and multifunction joystick controller
Control connections	USB (DSP programming) Dual Ethernet port, Online Control System
Input	BAL/ UNBAL XLR connectors analog input + loop AES/EBU digital input optional + loop
Nominal voltage	100 - 240V AC @ 50-60 Hz
Operating voltage	85 - 264V AC
AC Connectors	16A Neutrik powercon true1 TOP with looping output
Finish	Polyurea coating, high grade resistant paint
Material	15 mm /18 mm Premium birch plywood
Dimensions	608 x 800 x 778 mm (H x W x D) / with pins 814.5 mm (W)
Weight	64 Kg (141 lbs)

Dimensional Drawing

